

PRO AIR CURTAINS



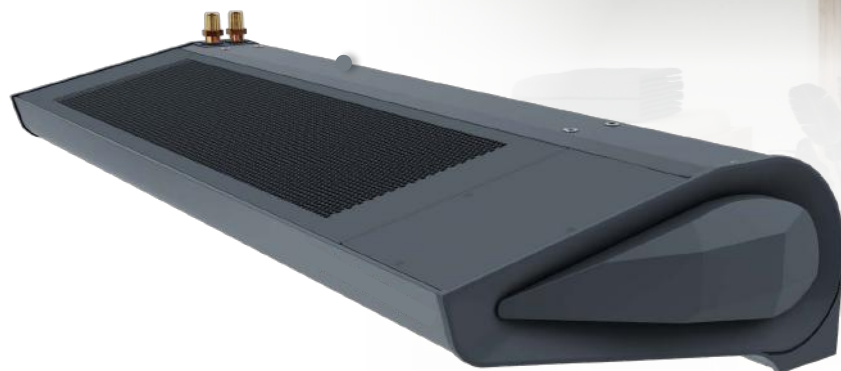
STANDARD AIR CURTAINS



INDUSTRIAL AIR CURTAINS

YOUR INVISIBLE BARRIER

This is the next generation air curtain created from a passion for a light and modern design representing characteristics of gliders.



Unique shape

A minimal casing with a streamlined form that seems to float in the air. The diamond style side panels hide the excellent components in an innovative curtain body to set new standards for air curtains. We combine the unique design and excellent efficiency to redefine the air curtain image.



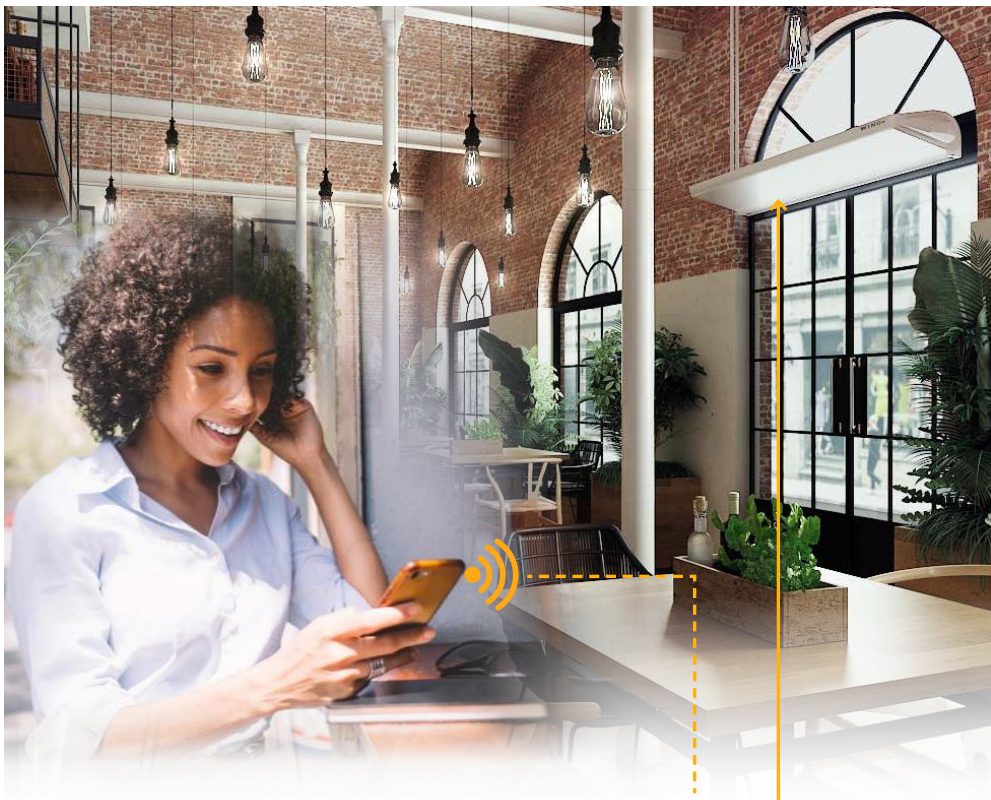
Quality and design

High quality materials, unique shape and rigid construction are the basic assumptions of the designers of the curtain. Simple cleaning of the curtain, double protective coating and efficient and durable EC motor ensure trouble-free operation of the device.

Energy efficiency

- » highly efficient EC motor
- » maximum unit efficiency even at reduced speed
- » smooth speed regulation
- » optimal fan shape and EC motor let save up to 40% of energy





HMI WiFi controller

- » modern and compact design
- » high contrast and clear screen
- » advanced calendar for each day of the week
- » door sensor cooperation
- » wireless communication with a smartphone
- » preset 3-levels speed control
- » build-in thermostat
- » 3-levels of heating power
- » up to 8 air curtains connected with the one controller



DOOR OPTIMUM function

Door Optimum function allows the air curtain to maintain full protection of the door opening and at the same time optimize costs associated with its operation. It keeps the air curtain operating at minimum speed and continues to protect the door, from the outside air, once the door begins opening it also increases the speed of air by +1 or +2 levels, depending on user's preferences.

Product range

WATER HEAT EXCHANGER

HEATING POWER RANGE:
4 - 47 kW

EXHAUST FLOW RATE:
1850-4400 m³/h

MAXIMUM AIR COVERAGE:
3,7 m

ELECTRIC HEATER

HEATING POWER RANGE:
2 - 15 kW

EXHAUST FLOW RATE:
1850-4500 m³/h

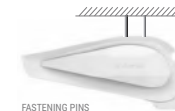
MAXIMUM AIR COVERAGE:
3,7 m

WITHOUT HEAT EXCHANGER (AMBIENT)

EXHAUST FLOW RATE:
4 m

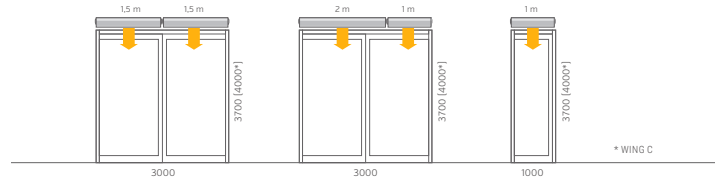
EXHAUST FLOW RATE:
1950-4600 m³/h

PRO 100/150/200

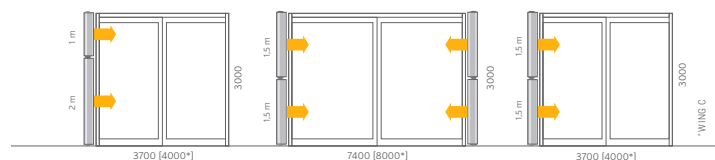


* width does not include side covers

HORIZONTAL INSTALLATION

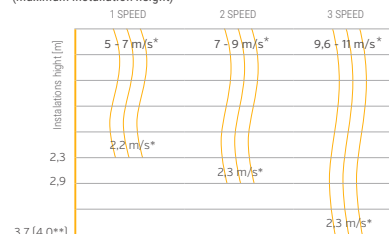


VERTICAL INSTALLATION



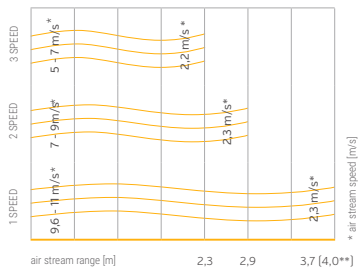
Stream range

Vertical air stream range (maximum installation height)



* air stream speed [m/s]
** ambient curtain

Horizontal air stream range (for vertical installation)



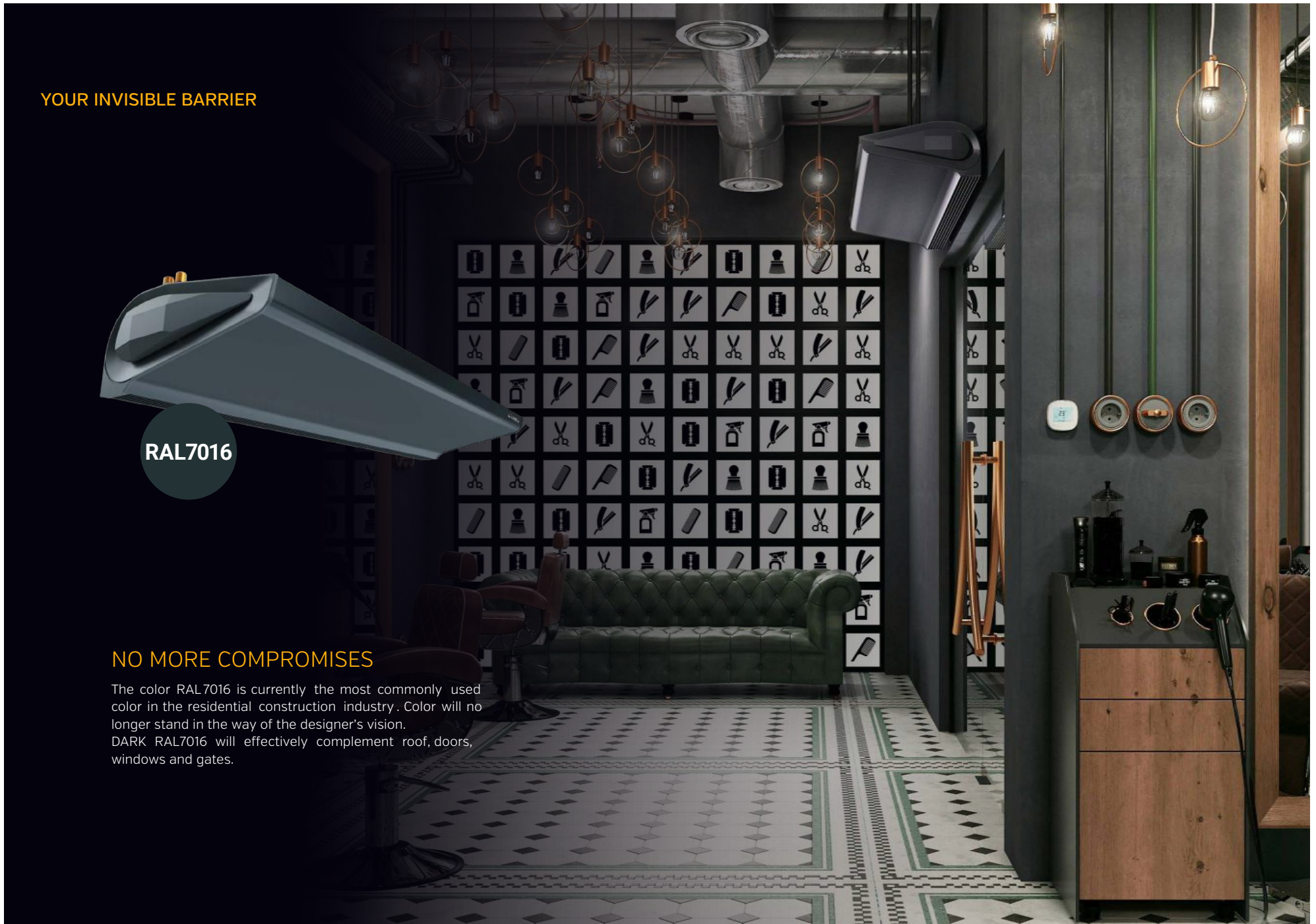
* air stream speed [m/s]
** ambient curtain

YOUR INVISIBLE BARRIER

RAL7016

NO MORE COMPROMISES

The color RAL7016 is currently the most commonly used color in the residential construction industry. Color will no longer stand in the way of the designer's vision. DARK RAL7016 will effectively complement roof, doors, windows and gates.

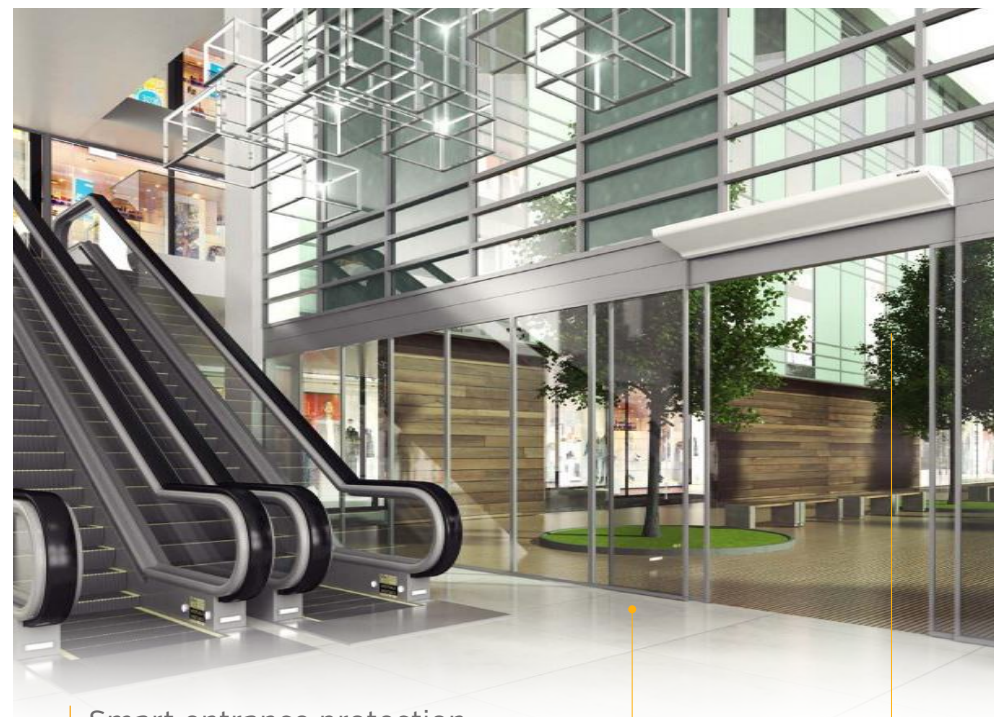


Technical parameters

PARAMETERS		WATER AIR CURTAIN						ELECTRIC AIR CURTAIN						AMBIENT AIR CURTAIN					
		100	150	200	100	150	200	100	150	200	100	150	200	100	150	200	100	150	200
Colour		AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC	AC	EC
Colour	○ WHITE (RAL 9016) ● DARK (RAL 7016)	○	●	○	●	○	●	○	●	○	●	○	●	○	●	○	●	○	●
-																			
maximum door width (1 device)	m	1	1,5	2				1	1,5	2				1	1,5	2			
maximum door height (vertical stream range)*	m			3,7						3,7						4			
maximum exhaustflow rate	m³/h	1850	3100	4400				1850	3150	4500				1950	3200	4600			
heating power range**	kW	4-17	10-32	17-47				2 lub 4/6	8/12	10/15				-					
maximum temperature of heating agent	°C		95					-						-					
maximum operating pressure	MPa		1,6					-						-					
water volume	dm³	1,6	2,6	3,6				-						-					
number of heat exchanger rows	pcs.		2					-						-					
supply voltage	V/ph/Hz		~ 230/1/50					~230/1/50 for 2kW ~400/3/50 for 4/6kW		~400/3/50				~230/1/50					
electric heating coil power	kW		-					2 and 4	4 and 8	5 and 10				-					
electric heating coil current draw	A		-					6/max.9	11,5/max.17,3	14,5/max.21,4				-					
motor power	kW	0,235	0,2	0,375	0,3	0,58	0,47	0,235	0,2	0,375	0,3	0,58	0,47	0,235	0,2	0,375	0,3	0,58	0,47
rated current	A	1,2	1,1	1,7	1,3	2,6	1,9	1,2	1,1	1,7	1,3	2,6	1,9	1,2	1,1	1,7	1,3	2,6	1,9
weight (without water)	kg	20,8	21,2	27,8	24,5	34,6	30,4	20	17,3	26,8	23,4	33,3	29,1	17,9	15,3	23,8	20,4	29,3	25,1
protection rating	IP	JP						20											

Accessories

													
HMI EC controller	Controller EC WIFI	Wall controller	Door sensor (reed switch)	Door sensor adapter - AC	Valve with actuator	Flex. connection hoses (set)							
Motor support	EC	Motor support	EC	Motor support	AC	Contact configuration	NO	Power supply	~230V/1ph /50Hz	Power supply voltage	~230V/1ph /50Hz	Length	0,6-0,9 m
Power supply voltage	~230V/1ph /50Hz	Power supply voltage	~230V/1ph /50Hz	Power supply voltage	6(3) V/ph/Hz	Switching current	500 mA	Rated input power	1W	Opening	3/3 min	Connection type	GW 3/4"
Permissible load	1A for 230VAC, 0,02A for 0-10V	Permissible load	1A for 230VAC, 0,02A for 0-10V	Permissible load	1A for 230VAC, 0,02A for 0-10V	Switching voltage	max 200 V	Protection rating	IP 55	Kvs	4,5	Max. fluid pressure	1,6 MPa
Setting range	5...40 °C	Setting range	5...40 °C	Setting range	10...30 °C	Connection	screw	Dedicated to curtains with AC motor. Adapter gives possibility to use Door sensor (1-4-0101-0454) with Wall controller (1-4-0101-0438).		Protection rating	IP 54	Min. working temperature for water	5 °C
Protection rating	IP 20	Protection rating	IP 20	Protection rating	IP 30							Min. working temperature for glycol	-20 °C
												Max. working temperature	130 °C
												Set includes	hose (2 pcs) gasket (4 pcs)



Smart entrance protection

INSIDE

← CHILLED AIR
← CLEAN AIR

OUTSIDE

→ WARM AIR
→ DUST
→ INSECTS
→ POLLUTION
→ UNPLEASANT SCENTS

Noise level

Fan speed	Noise level	CV 100-200			E 100-200			L 100-200		
		1m	1,5m	2m	1m	1,5m	2m	1m	1,5m	2m
I	dB(A)***	52	53	56	49	51	55	53	54	57
II		55	58	61	51	56	59	59	62	61
III		57	59	62	58	58	60	62	63	63

* air stream range depends on curtain operation speed

** available heating power in the control option configuration: E100 2 or 4/6kW, for E150 8/12kW, for E200 10/15kW

*** speed measurement conditions: semi-open space, horizontal installation on the wall, measurement performed 5 m away from the device

PRO

AIR CURTAINS
FOR PROFESSIONALS



Energy saving

EC motor use even 40% less electrical energy and allow for **BMS direct connection**.



Power

The wide air stream, range up to **8 meters**, capacity up to **88 kW**.



Installation

Vertical or horizontal mounting possibility plus easy unit connection.



Price

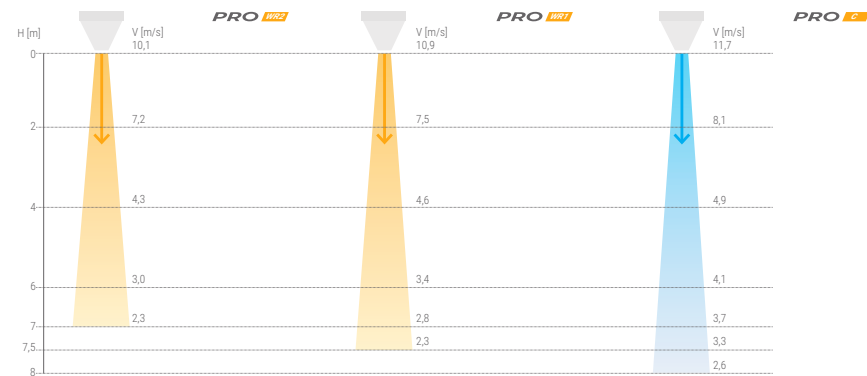
Intelligent design with never-before-seen performance available at a **competitive price**.



Product range



Stream range



Technical parameters

PARAMETERS		PRO DOUBLE ROW COIL		PRO SINGLE ROW COIL		WITHOUT HEATING (AMBIENT)	
		W150 EC	W200 EC	W150 EC	W200 EC	L150 EC	L200 EC
							-
Max. height of door	m	1,5	2	1,5	2	1,5	2
Max. air stream range	m	7		7,5		8	
Max. flow rate	m³/h	7 300	10 700	7 900	11 900	8 500	12 800
Heating power range	kW	17-58	28-88	3-32	15-48	-	
Max. temperature of heating medium	°C	130				-	
Max. Working pressure	MPa	1,6				-	
Diameter of stub pipe connectors	"	3/4				-	
Supply voltage	V/ph/Hz	~230/1/50					
EC motor power	kW	2 x 0,25	3 x 0,25	2 x 0,25	3 x 0,25	2 x 0,25	3 x 0,25
Rated current (EC motor)	A	2 x 1,3	3 x 1,3	2 x 1,3	3 x 1,3	2 x 1,3	3 x 1,3
Weight AC/EC (without water)	kg	53,6	69,6	50,5	66,1	43,4	58,3
IP protection rating	IP	54					

Accessories



HMI EC controller



Controller EC WIFI



Door sensor (reed switch)



Valve with actuator



Flex. connection hoses (set)

HMI EC controller			Controller EC WIFI			Door sensor (reed switch)			Valve with actuator			Flex. connection hoses (set)		
Motor support	-	EC	Motor support	-	EC	Contact configuration	-	NO	Power supply voltage	V/ph/Hz	~230/1/50	Length	m	0,6-0,9
Power supply voltage	V/ph/Hz	~230/1/50	Power supply voltage	V/ph/Hz	~230/1/50	Switching current	mA	500	Opening	min	3/3	Connection type	GW	3/4"
Permissible load	A	1A for 230VAC 0,02A for 0-10V	Permissible load	A	1A for 230VAC 0,02A for 0-10V	Switching voltage	V	max 200 V	Kvs	-	4,5	Max. fluid pressure	MPa	1,6
Setting range	°C	5...40	Setting range	°C	5...40	Connection	°C	screw	Protection rating	IP	54	Min. working temperature for water	°C	5
Protection rating	IP	20	Protection rating	IP	20							Min. working temperature for glycol	°C	-20
												Max. working temperature	°C	130
												Set includes	-	hose (2 pcs) gasket (4 pcs)



Noise level

Fan speed	Noise level	PRO W R1		PRO W R2		PRO L	
		1,5m	2m	1,5m	2m	1,5m	2m
I	dB(A)*	45	46	45	45	47	48
II		55	57	54	55	57	58
III		64	65	62	63	65	66

* speed measurement conditions: semi-open space, horizontal installation on the wall, measurement performed 5 m away from the device